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DOCKET NO.: UOPM-0188

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Gary D. Reeder, et al.

Confirmation No.: Not Yet Assigned

Application No.: 10/827,400

Group Art Unit: Not Yet Assigned

Filing Date: April 19, 2004

Examiner: Not Yet Assigned

For: MEMBRANE APPARATUS WITH ENHANCED MASS TRANSFER, HEAT

TRANSFER AND PUMPING CAPABILITIES VIA ACTION MIXING

DATE OF DEPOSIT: June 21, 2004

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA,

TYPED NAME: Elizabeth A. McLoud

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified	application as set forth in § 1.491, before the mailing date
of a first Office Ac	tion on the merits of the above-identified application, or
before the mailing	date of a first Office Action after the filing of request for
continued examinati	on under § 1.114, no additional fee is required.
In accordance with	§ 1.129(a), this Information Disclosure Statement is being
filed in connection	with [] the first or [] second After Final Submission,
therefore:	
☐ Certi	fication in Accordance with § 1.97(e) is attached; or
The t	fee of \$180.00 as set forth in § 1.17(p) is attached.
In accordance with	§ 1.97(c), this Information Disclosure Statement is being
filed after the period	set forth in § 1.97(b) above but before the mailing date of
either a Final Action	under § 1.113 or a Notice of Allowance under § 1.311, or
before an action tha	t otherwise closes prosecution in the application, therefore:
	Certification in Accordance with § 1.97(e) is attached;
	or
	The fee of \$180.00 as set forth in § 1.17(p) is attached.
In accordance with	§ 1.97(d), this Information Disclosure Statement is being
filed after the maili	ng date of either a Final Action under § 1.113 or a Notice
of Allowance under	§ 1.311 but before, or simultaneously with, the payment
of the Issue Fee, th	nerefore included are: Certification in Accordance with §
1.97(e); and the sub	mission fee of <u>\$180.00</u> as set forth in § 1.17(p).
Copies of each of	the references listed on the attached Form PTO-1449 are
enclosed herewith.	

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Copies of references listed on the attached Form PTO-1449 are enclosed herewith

Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).

EXCEPT THAT:

- In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C.§ 120 have been made in the instant application:
 - Copies of references 1-64 and 80-84 listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. 08/837,048, filed April 11, 1997 now U.S. Patent No. 6,106,776; copies of references 65-76 listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. 09/157,815, filed September 21, 1998 now U.S. Patent No. 6,217,826.

PATENT

Please charge any deficiency or credit any overpayment to Deposit Account No. 23
3050. This form is submitted in duplicate.

The relevance of reference number 83 was previously submitted.

There are no listed references which are not in the English language.

Date:
Michael J. Bonella
Registration No. 41,628

WOODCOCK WASHBURN LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 Telephone: (215) 568-3100 Facsimile: (215) 568-3439

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Form P	ГО-	1449 Modified	Docket No. UOPM-0188	Application No. 10/827,400			
Cite	ed b	and Publications y Applicant heets if necessary)	Applicant Gary D. Reeder, et al.				
_		ent of Commerce rademark Office	Filing Date April 19, 2004	Group Not Yet Assigned			
			Confirmation No. Not Yet Assigned				
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	1	Lawyers 'Medical Cyclop §33.10, NEED DATE, 4		Respiratory System", §33.1 -			
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	3	-	Specialties, Inc. (EMSI), Instructions for Use, 1981, 1	nterpulse™ Membrane -18 (plus 2 sheets of drawings)			
	4	Makarewicz, A.J. et al., "A Dynamic Intravascular Artificial Lung", ASAIO J., 1994, M747-M750					
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	Nose, Y. (ed.) "The Oxygenator", Manual on Artificial Organs, The C.V. Mosby Company, Saint Louis, 1973, Vol, II, pages 1-2, 4, 6, 10, 12-14, 25-38, 127-162, 175-185						
	7	Searle Cardio-Pulmonary 1975, 4 pages	y Systems, Inc., "Searle M	embrane Oxygenator" brochure,			
	8	Thomas, J.A. et al., "A Heart-Lung Machine with Artificial Pulmonary Membrane: First Surgical Results", <i>Arch Mal Coeur</i> , 1958 , <i>51</i> , 801-811 (English translation included)					
	9	Levich, "Diffusion Rates in Turbulent Flow", Ch. III, 139-184 and "Heat Transfer in Fluids", Ch. VI, 185-206 in Physiochemical Hydrodynamics, Prentice Hall, Englewood Cliffs, N.J., 1962 (English translation from Russian)					
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	11	Sherwood et al., "Rate Equations for Molecular Diffusion", Ch. 3, in Mass Transfer, McGraaw Hill, New York. 1975, 54-100						
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·				Confirmation No. Not Yet Assigned			
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	13	3,026,871	03/27/62	Thomas		128	214
	14	3,291,568	12/13/66	Sautter		23	258.5
	15	3,332,746	07/25/67	Claff et al.		23	258.5
	16	3,352,422	11/1967	Heden		210	321.67
	17	3,396,849	08/13/68	Lande et al.		210	321
	18	3,480,401	11/25/69	Holm et al.		23	258.5
-	19	3,579,810	05/25/71	Mon		29	527.1
	20	3,674,440	07/04/72	Kitrilakis		23	258.5
	21	3,794,468	02/26/74	Leonard		23	258.5
	22	3,841,837	10/15/74	Kitrilakis et al.		23	258.5
	23	3,907,504	09/23/75	Hammond et al.		23	258.5
	24	3,927,980	12/23/75	Leonard		23	258.5
	25	3,998,593	12/21/76	Yoshida		23	258.5 MH
	26	4,033,724	07/05/77	Tamiya		23	258.5 BH
	27	4,151,088	04/24/79	Wolf, Jr. et al.		210	180
	28	4,158,693	06/19/79	Reed et al.		422	46
	29	4,163,721	08/07/79	Lobdell		210	232
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	30	4,165,287	08/21/79	Goyne		210	232	
,	31	4,179,364	12/18/79	Bratten et al.		210	321 B	
	32	4,239,625	12/16/80	Hlavinka		210	321.3	
	33	4,312,757	01/1982	Brumfield		210	321.63X	
	34	4,402,420	09/06/83	Chernack		220	266	
	35	4,424,190	01/03/84	Mather, III et al.		422	46	
	36	4,455,230	06/19/84	Elgas et al.		210	232	
	37	4,476,685	10/16/84	Aid		62	3	
	38	4,487,558	12/11/84	Troutner		417	477	
	39	4,490,331	12/25/84	Steg, Jr.		422	46	
	40	4,573,884	03/04/86	Troutner		417	374	
	41	4,574,876	03/11/86	Aid		165	46	
"	42	4,620,965	11/04/86	Fukusawa et al.		422	46	
	43	4,639,353	01/27/87	Takemura et al.		422	46	
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Norling

Bringham et al.

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				Filing Date April 19, 2004	Group Not Yet Assigned				
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	51	5,034,135	07/23/91	Fischel		210	651		
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	58	5,311,932	05/1994	Sen et al.		165	109.1		
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	68	5,578,267	11/26/96	Cosentino et al.		422	46	
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